



SLX Wireless System Specifications

SHURE SLX WIRELESS

Sound installations and working bands need powerful wireless tools that can be set up quickly and used fearlessly. Shure's rugged SLX UHF Wireless Systems more than deliver with innovative setup features, exceptional wireless clarity, and legendary Shure microphones. Offering up to 20 compatible systems in a single installation, SLX smoothly integrates into houses of worship, lecture halls, conference rooms, and mobile gear cases.

SYSTEM FEATURES

Auto Frequency Selection

- Locates a clear channel instantly

Auto Transmitter Setup

- Infrared link automatically synchronizes the transmitter and receiver

Shure's patented Audio Reference Companding

- Delivers crystal-clear audio transmission, far superior to conventional wireless technology

RECEIVER FEATURES

- Detachable 1/4 wave antennas
- Backlit LCD
- Rack-mount hardware included
- 1/4" and XLR audio outputs
- Frequency and power lockout
- Volume control on rear of unit
- Rugged metal construction

HANDHELD AND BODYPACK TRANSMITTER FEATURES

- Choice of Shure handheld microphones
- Bodypack works with headworn, lavalier and instrument microphones and cables
- Timed backlit LCD
- Frequency and power lockout
- 2 AA batteries (included) provide 8 hours of continuous use
- 100m (300 ft.) operating range
- Battery fuel gauge

ARCHITECT'S SPEC

The wireless system shall operate in the UHF band between 524 MHz and 865 MHz, with the specific available frequency range being dependent on the user's locale. Effective range of the system, receiver to transmitter, shall be 100 meters (300 ft.), under optimal conditions. Each system shall allow selection of over 960 operating frequencies across 24 MHz of bandwidth in order to avoid RF interference. Optimal frequencies shall be selected automatically, ensuring that individual systems run at their highest level of performance, and that multiple systems in simultaneous use do not interfere with one another.

An infrared signal beamed from the receiver shall be used to synchronize the frequency between the transmitter and the receiver. The process of synchronizing the system shall be simple and instantaneous.

Each transmitter shall be powered by two AA batteries. Transmitters shall have a power on-off/mute switch, as well as a timed backlit LCD showing frequency group and channel, locked/unlocked status, and battery strength. Available transmitters shall include a bodypack for use with guitars, basses, and other electric instruments, as well as lavalier, headset or instrument microphones, and a handheld transmitter for vocals. The bodypack shall include a 3-position switch and the handheld transmitter shall include a 2-position switch to compensate for higher- or lower-gain devices. Both transmitters shall feature an easily accessible infrared port for system synchronization.

The receiver shall have a multi-function display showing group, channel, frequency, transmitter battery strength, and locked/unlocked status. The system shall use diversity technology to improve reception, minimize signal dropouts, and achieve the best possible signal-to-noise ratio. The receiver shall include an audio level meter and an infrared port for system synchronization.

The system shall be the Shure SLX Wireless.

SLX WIRELESS SYSTEM SPECIFICATIONS

SPECIFICATIONS

System

Frequency Range and Transmitter Output Level

Band	Range	Transmitter output
G4	470–494 MHz	30 mW
G5	494–518 MHz	30 mW
H5	518–542 MHz	30 mW
J3	572–596 MHz	30 mW
L4	638–662 MHz	30 mW
P4	702–726 MHz	30 mW
R13	794–806 MHz	20 mW
R5	800–820 MHz	20 mW
S6	838–865 MHz	10 mW
JB	806–810 MHz	10 mW
Q4	740–752 MHz	10 mW

NOTE: This Radio apparatus may be capable of operating on some frequencies not authorized in your region. Please contact your national authority to obtain information on authorized frequencies for wireless microphone products in your region.

Operating Range Under Typical Conditions

100m (300 ft.)

Note: actual range depends on RF signal absorption, reflection, and interference

Audio Frequency Response (+/- 2 dB)

Minimum: 45 Hz

Maximum: 15 kHz

(Overall system frequency depends on microphone element.)

Total Harmonic Distortion (ref. +/- 38 kHz deviation, 1 kHz tone)

0.5%, typical

Dynamic Range

>100 dB A-weighted

Operating Temperature Range

-18°C (0°F) to +50°C (+122°F)

Note: battery characteristics may limit this range

Transmitter Audio Polarity

Positive pressure on microphone diaphragm (or positive voltage applied to tip of WA302 phone plug) produces positive voltage on pin 2 (with respect to pin 3 of low impedance output) and the tip of the high impedance 1/4-inch output.

SLX1 Bodypack Transmitter

Audio Input Level

-10 dBV maximum at mic gain position

+10 dBV maximum at 0 dB gain position

+20 dBV maximum at -10 dB gain position

Gain Adjustment Range

30dB

Input Impedance

1 M Ω

RF Transmitter Output

30 mW maximum (dependent on applicable country regulations)

Dimensions

108 mm H x 64 mm W x 19 mm D (4.25 x 2.50 x 0.75 in.)

Weight

81 grams (3 oz.) without batteries

Housing

Molded ABS case

Power Requirements

2 "AA" size alkaline or rechargeable batteries

Battery Life

>8 hours (alkaline)

SLX2 Handheld Transmitter

Audio Input Level

+2 dBV maximum at -10dB position

-8 dBV maximum at 0dB position

Gain Adjustment Range

10dB

RF Transmitter Output

30 mW maximum (dependent on applicable country regulations)

Dimensions (including SM58 cartridge)

254 mm x 51 mm dia. (10 x 2 in.)

Weight

290 grams (10.2 oz.) without batteries

Housing

Molded PC/ABS handle and battery cup

Power Requirements

2 "AA" size alkaline or rechargeable batteries

Battery Life

>8 hours (alkaline)

SLX4 Receiver

Dimensions

42 mm H x 197 mm W x 134 mm D (1.65 x 7.76 x 5.28 in.)

Weight

816 g (1 lb. 13 oz.)

Housing

Galvanized steel

Audio Output Level (ref. +/- 38 kHz deviation with 1 kHz tone)

XLR connector (into 600 Ω load): -13 dBV

1/4 inch connector (into 3000 Ω load): -2 dBV

Output Impedance

XLR connector: 200 Ω

1/4 inch connector: 1k Ω

XLR output

Impedance balanced

Pin 1: Ground

Pin 2: Audio

Pin 3: No signal

Sensitivity

-105 dBm for 12 dB SINAD, typical

Image Rejection

>70 dB, typical

Power Requirements

12–18 Vdc at 150 mA, supplied by external power supply

REPLACEMENT PARTS AND ACCESSORIES

Replacement Parts (all systems)

Microphone Stand Adapter (SLX2)	WA371
Zipper Bag (SLX1)	26A13
Zipper Bag (SLX2)	26A14
Short Rack Bar	53A8571
Long Rack Bar	53A8572
Link Bar	53A8443
Antenna extension cables (2)	95A9023

Replacement Parts (system-specific)

AC Adapter (120 VAC, 60 Hz)	PS20
AC Adapter (230 VAC, 50/60 Hz, Europlug)	PS20E
AC Adapter (230 VAC, 50/60 Hz, UK)	PS20UK
AC Adapter (100 VAC, 50/60 Hz)	PS20J
SM58 Head with Grille (SLX2/SM58)	RPW112
SM86 Head with Grille (SLX2/SM86)	RPW114
BETA 58 Head with Grille SLX2/BETA 58	RPW118
BETA 87A Head with Grille (SLX2/BETA 87A)	RPW120
BETA 87C Head with Grille (SLX2/BETA 87C)	RPW122
Matte Silver Grille (SLX2/SM58)	RK143G
Matte Silver Grille (SLX2/SM86)	RPM266
Matte Silver Grille (SLX2/BETA 58)	RK265G
Matte Silver Grille (SLX2/BETA 87A)	RK312
Matte Silver Grille (SLX2/BETA 87C)	RK312
Belt Clip	44A8030
1/4-Wave Antenna (518–752 MHz)	UA400B
1/4-Wave Antenna (748–865 MHz)	UA400

Optional Accessories

Carrying Case	WA610
Black Grille (SLX2/BETA 58)	RK323G
Black Grille (SLX2/BETA 87A)	RK324G

Antenna Combiners and Accessories

Antennas and receivers must be from the same band.

The supplied 1/4 wave antennas can be used when mounted directly to the UA844. If antennas are remote mounted, 1/2 wave antennas must be used.

Antennas and cables are for use with UA844, and cannot be used with stand-alone SLX receivers.

Passive Antenna/Splitter Combiner Kit (recommended for 2 receivers)	UA221
UHF Antenna Power Distribution Amplifier (recommended for 3 or more receivers)	
U.S.A.	UA844US
Europe	UA844E
UK	UA844UK
1/2 Wave Antenna Remote Mount Kit	UA500
1/2 wave antenna	
H5 Band	UA820H
J3 Band	UA820D
L4 Band	UA820L
P4, Q4 Bands	UA820B
R13, R5, S6, JB Bands	UA820A
25' Antenna Cable	UA825
50' Antenna Cable	UA850
100' Antenna Cable	UA100

SHURE®

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SMART, HARD-WORKING WIRELESS



SLX® Wireless Microphone Systems

Whether it's for a sound installation or a working band on the road, audio professionals need powerful wireless tools that can be set up quickly and used confidently. Shure's rugged SLX™ Wireless Systems exceed these demands with innovative automatic setup features, exceptional wireless clarity and legendary Shure microphones. Supporting up to 20 compatible systems across multiple UHF frequency bands, SLX smoothly integrates into houses of worship, lecture halls, conference rooms and mobile gear cases.

Shure's patented Audio Reference Companding

Delivers crystal-clear audio transmission, far superior to conventional wireless technology

Auto Frequency Selection

Locates a clear channel instantly

Auto Transmitter Setup

Infrared link automatically syncs the transmitter and receiver



Wireless Receiver

- Detachable ¼ wave antennas
- Backlit LCD
- Rack-mount hardware included
- ¼" and XLR audio outputs
- Frequency and power lockout
- Volume control on rear of unit
- Rugged metal construction

Handheld or Bodypack Transmitter

- Choice of Shure handheld microphones
- Bodypack works with headworn, lavalier and instrument microphones and cables
- Timed backlit LCD
- Frequency and power lockout
- 2 AA batteries (included) provide 8 hours of continuous use
- 100m (300 ft.) operating range

Available System Options

HANDHELD



SM58®
SM86
BETA 58A®

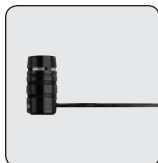
BETA 87A
BETA 87C

Systems include:
SLX4 Diversity Receiver and a choice of
Handheld Microphone Transmitter.

SLX24/SM58
SLX24/SM86
SLX24/BETA58

SLX24/BETA87A
SLX24/BETA87C

LAVALIER



WL93
WL184
WL185

Systems include:
SLX4 Diversity Receiver, SLX1 Bodypack Transmitter
and a choice of Microphone or Guitar/Bass Cable.

SLX14/93
SLX14/84
SLX14/85

HEADWORN



WH30TQG

SLX14/30

GUITAR



WA302

SLX14

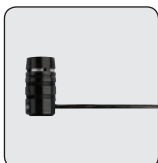
INSTRUMENT



WB98H/C

SLX14/BETA98H

COMBO



SM58®
WL185

MICROFLEX® WIRELESS BOUNDARY/GOOSENECK



MX690



MX405
with MX890



MX410
with MX890

System includes:
SLX4 Diversity Receiver, SLX1 Bodypack
Transmitter and SLX2 handheld Transmitter.

SLX124/85/SM58

Microflex Microphones are sold as components only.

Optional Accessories

- UA221** Passive Antenna Splitter
- UA505** Remote Mount Kit for ½ wave antennas
- UA820** ½ Wave Antennas
- UA825** 25' cable for ½ wave antennas
- UA844** Antenna/Power Distribution System
- UA850** 50' cable for ½ wave antennas
- UA830** Active Remote Antenna Kit (UA844 required)
- UA870** Active Directional Antenna (UA844 required)
- WA610** Universal Hard Carrying Case transmitter

Optional Logic Functionality

A logic circuit and associated block connector is provided on the SLX4L receiver, designed to function optimally with software echo cancellers and provide remote monitoring of transmitter battery life. Supported models include MX690, MX890, and SLX4L receiver.

- SLX4L** Wireless Receiver with Logic
- MX690** Microflex® Wireless Boundary Microphone
- MX890** Microflex® Wireless Desktop Base

System Specifications

NOTE: All specifications are subject to change.

Frequency Range and Transmitter Output Level

	Range	SLX1/SLX2	MX690/ MX890
H5	518–542 MHz	30 mW	10 mW
J3	572–596 MHz	28 mW	28 mW
L4	638–662 MHz	30 mW	10 mW
P4	702–726 MHz	30 mW	10 mW
R5	800–820 MHz	20 mW	10 mW
S6	838–865 MHz	10 mW	10 mW
JB	806–810 MHz	10 mW	10 mW
Q4	740–752 MHz	10 mW	10 mW
R13	794–806 MHz	20 mW	10 mW
G4	470–494 MHz	30 mW	10 mW
G5	494–518 MHz	30 mW	10 mW

Operating Range:

30–100 m (100–300 ft.) under typical conditions, depending on transmitter type

Note: actual range depends on RF signal absorption, reflection, and interference.

Audio Frequency Response:

Minimum: 45 Hz, Maximum: 15 kHz (± 2 dB)

Total Harmonic Distortion:

0.5%, typical (ref. ± 38 kHz deviation, 1 kHz tone)

Dynamic Range:

>100 dB A-weighted

Operating Temperature Range:

–18°C (0°F) to +50°C (+122°F)

Note: battery characteristics may limit this range.

Transmitter Audio Polarity:

Positive pressure on microphone diaphragm (or positive voltage applied to tip of WA302 phone plug) produces positive voltage on pin 2 (with respect to pin 3 of low impedance output) and the tip of the high impedance ¼-inch output.

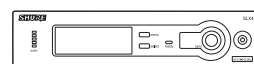
NOTE: This radio apparatus may be capable of operating on some frequencies not authorized in your region. Please contact your national authority to obtain information on authorized frequencies and output power levels for wireless microphone products in your region.



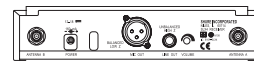
- No “breathing” noise
- Lower noise floor
- More headroom - won't clip as easily
- Clearer sound at all audio levels
- Sounds more like a wired mic

Component Specifications

Receiver



SLX4 Receiver Front



SLX4 Receiver Rear



SLX4L Receiver Rear

SLX4/SLX4L

Housing:

Galvanized steel

Audio Output Level:

(ref. ± 38 kHz deviation with 1 kHz tone)

XLR connector (into 600 Ω load):

–13 dBV

¼ inch connector (into 3000 Ω load):

–2 dBV

Sensitivity:

–105 dBm for 12 dB SINAD, typical

Image Rejection

>70 dB, typical

Power:

12–18 Vdc at 150 mA, supplied by external power supply

Weight:

816 g (1 lb. 13 oz.)

Dimensions:

42 mm H x 197 mm W x 134 mm D

Handheld Transmitter



SLX2

Housing:

Molded ABS handle and battery cup

Audio Input Level:

–8 dBV maximum at 0dB position

Operating range:

100 m (300 ft.)

Power Requirements:

2 “AA” size alkaline or rechargeable batteries

Battery Life (alkaline):

>8 hours

Weight:

290 grams (10.2 oz.) without batteries

Dimensions:

254 mm x 51 mm dia.
(incl. SM58 cartridge)

Bodypack Transmitter



SLX1

Housing:

Molded ABS case

Audio Input Level:

+10 dBV max. at 0 dB gain position

Operating range:

100 m (300 ft.)

Power Requirements:

2 “AA” size alkaline or rechargeable batteries

Battery Life (alkaline):

>8 hours

Weight:

81 grams (3 oz.) without batteries

Dimensions:

108 mm H x 64 mm W x 19 mm D

Wireless Boundary Microphone



MX690

Operating Range:

30 m (100 ft.) Note: Actual range depends on RF signal absorption, reflection, and interference

Type:

Condenser (electret bias)

Polar Pattern (at 1 kHz):

Cardioid

Power Requirements:

2 “AA” size alkaline or rechargeable batteries

Battery Life:

≥8 hours (alkaline)

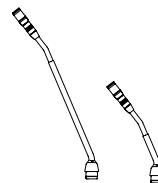
Dimensions:

43 mm H x 87 mm W x 148 mm D

Weight:

Net: 318 g (11.2 oz)
Packaged: 516 g (18.2 oz)

Gooseneck Microphone with Wireless Desktop Base



MX405 & MX410

Type:

Condenser (electret bias)

Polar Pattern:

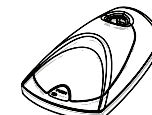
MX405/C, MX410/C: Cardioid
MX405/S, MX410/S: Supercardioid

Weight:

Net MX405: 54 g (1.9 oz)
Net MX410: 68 g (2.3 oz)

Dimensions:

MX405: 152mm L x 7.5mm dia.
MX410: 251 mm L x 7.5 mm dia.



MX890

Operating Range:

30 m (100 ft.) Note: Actual range depends on RF signal absorption, reflection, and interference

Power Requirements:

2 “AA” size alkaline or rechargeable batteries

Battery Life:

≥8 hours (alkaline)

Weight:

Net: 312 g (11 oz)

Dimensions

43 mm H x 87 mm W x 148 mm D

SHURE
LEGENDARY
PERFORMANCE™

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